

MATERIAL SAFETY DATA SHEET

Effective Date: November 1, 1994 Date Printed: May 1, 1996 MSDS: LCL

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODE: Chlorinated Paraffin

PRODUCT NAME: Paroil 140 CAS #: 63449-39-8

PRODUCT USE: Lubricant, Lubricant Additive, Flame Retardant, Plastics Compounding

DOVER CHEMICAL CORPORATION, 3676 Davis Road, NW, P. O. Box 40, Dover, Ohio 44622
TEL: (330) 343-7711 FAX #: (330) 364-1579 EMERGENCY TEL: (330) 343-7711 CHEMTREC: 1-800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS #	EXPOSURE LIMITS	% By Wt.
Chlorinated Paraffin	63449-39-8	Not established	100

This particular product has not been shown to have adverse effects in years of manufacture and use. Chlorinated paraffins are a class of compounds that are similarly manufactured but vary in molecular structure by carbon chain length and degree of chlorination.

EEC 67/548: Not applicable

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Clear, light amber liquid with slight to non-distinctive odor (See Section 9). Avoid contact with eyes and repeated or prolonged inhalation or contact with skin (See Section 3 below). Avoid contact with strong oxidizers and reducers. Protect against decomposition products of hydrogen chloride and oxides of carbon (See Sections 5, 7 and 10).

HMIS RATING: HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 1 PPE: B

POTENTIAL HEALTH EFFECTS

EYE: May cause eye irritation.

SKIN: Repeated or prolonged contact may cause skin irritation.

INGESTION: No hazard in normal industrial use.

INHALATION: High gas or vapor or mist concentrations may be harmful if inhaled repeatedly or for prolonged periods of time.

CHRONIC EFFECTS: Not listed as human carcinogen by OSHA, IARC, or NTP.

SIGNS AND SYMPTOMS: Eye, skin or respiratory tract irritation

DOVER CHEMICAL CORPORATION
Paroil 140

5/1/96

4. FIRST AID MEASURES			
EYES: Hold eyelid open; flush with large volume of water; continue for 15 minutes. If irritation develops, seek medical attention.			
SKIN: Wash area with mild soap and water. If irritation develops, seek medical attention.			
INGESTION: If swallowed, induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person.			
INHALATION: No specific treatment. This material is not likely to be hazardous by inhalation. If exposed to excessive levels of vapor or mist, remove to fresh air and seek medical attention.			
NOTE TO PHYSICIANS: Treat as any exposure to any oil base material. (See Section 3 for observable SIGNS/SYMPTOMS).			
5. FIRE FIGHTING MEASURES			
FLAMMABLE PROPERTIES: Flash Point: >450 ° F		Method: C.O.C.	Burn Rate: Unknown
FLAMMABLE LIMITS: Lower flammable limit: Not established Upper flammable limit: Not established			
FLAMMABILITY CLASSIFICATION: Not established			
AUTOIGNITION TEMPERATURE: Not established			
HAZARDOUS COMBUSTION PRODUCTS: Hydrogen chloride, oxides of carbon			
EXTINGUISHING MEDIA: Water fog; foam; dry chemical			
ADDITIONAL CONSIDERATIONS: None			
FIRE FIGHTING INSTRUCTIONS:		Protect against decomposition products, wear self contained breathing apparatus. If this material is involved in a fire, keep surrounding containers cool with water spray and contain all runoff.	
NFPA 704M RATING:	HEALTH: 1	FLAMMABILITY: 1	REACTIVITY: 1 SPECIAL: -
6. ACCIDENTAL RELEASE MEASURES			
Wear protective equipment (see Section 8); stop leak at source; dike area; prevent material from entering waterway; prevent contact with strong oxidizers and reducers (see Section 7); pump material to reclaim container; use absorbent on remaining material; and, shovel into disposal container.			
7. HANDLING AND STORAGE			
HANDLING: Do not wear contaminated clothing. Wash prior to eating, drinking, smoking, or use of restroom and when leaving work. Heating of non-vented container may cause container to rupture. Do not dispose of material or empty container to the environment.			
STORAGE: Do not store near heat or open flame.			
INCOMPATIBLE MATERIALS: Strong oxidizers and reducers			
VENTILATION: Local exhaust, unless heating to vapor or mist			
SPECIAL PACKAGING MATERIALS: Not applicable			

DOVER CHEMICAL CORPORATION
Paroil 140

5/1/96

8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
ENGINEERING CONTROLS:	Mechanical if heated to vapor and mist; facility should be equipped with safety shower and eye wash in area.
EYE/FACE PROTECTION:	Face shield or chemical splash goggles
SKIN PROTECTION:	Impervious gloves; chemical goggles; long sleeve shirt and trousers
RESPIRATORY PROTECTION:	Not required under normal conditions of use, avoid vapor and mist without respiratory protection
EXPOSURE GUIDELINES:	(See Section 2)
9. PHYSICAL AND CHEMICAL PROPERTIES	
APPEARANCE:	Clear, light amber liquid
ODOR:	Slight to non-distinctive
PHYSICAL STATE:	Liquid
pH:	Not applicable
VAPOR PRESSURE:	Unknown
VAPOR DENSITY:	Heavier than air
BOILING POINT:	Not applicable, material decomposes
MELTING POINT:	Not applicable
SOLUBILITY IN WATER:	Nil
SPECIFIC GRAVITY:	1.15 @ 50°/25° C
10. STABILITY AND REACTIVITY	
CHEMICAL STABILITY:	Stable under normal ambient and anticipated storage and handling conditions
CONDITIONS TO AVOID:	Avoid heating to decomposition
INCOMPATIBILITY:	Strong oxidizing and reducing agents
HAZARDOUS DECOMPOSITION PRODUCTS:	Hydrogen chloride, oxides of carbon
HAZARDOUS POLYMERIZATION:	Will not occur

DOVER CHEMICAL CORPORATION
Paroil 140

5/1/96

11. TOXICOLOGICAL INFORMATION	
EYE EFFECTS:	Mild transient eye irritation
SKIN EFFECTS:	Mild to moderate skin irritation
INGESTION EFFECTS:	Male rat: 13 week oral; NOEL; 3750 mg/kg/day Female rat: 13 week oral; NOEL; 100 mg/kg/day Rat: 14 day oral; NOEL; 3000 mg/kg/day
INHALATION EFFECTS:	No data
SUBCHRONIC EFFECTS:	No data
CHRONIC EFFECTS/CARCINOGENICITY:	Product not tested by OSHA, IARC, or NTP
EPIDEMIOLOGY:	No data
TERATOLOGY:	Pregnant Dutch belted rabbits: NOEL; 5000 mg/kg/day Pregnant Charles River COBS CD rats: 5000 mg/kg/day; no apparent embryotoxicity; minimal maternal effects
REPRODUCTIVE EFFECTS:	Female rat: 13 week oral; 3750 mg/kg/day; Ovary target organ; accumulation in ovary not associated with any toxicological changes in that organ
NEUROTOXICITY:	No data
MUTAGENICITY:	Rat: 5000 mg/kg/day; In vivo cytogenetic evaluation by analysis of bone marrow did not produce any increase in frequency of chromosome or chromatid abnormalities. Not clastogenic
SYNERGISTIC PRODUCTS:	No data
12. ECOLOGICAL INFORMATION	
ECOTOXICITY:	Rainbow trout: 60 day, mean concentration 4.0 mg/l; material not toxic; Bioconcentration factor of 3.6-9.0 times on total material figures Mussels: 60 day, NOEL; .32 mg/l; Bioconcentration of 87.2-1000 based on parent compound analysis
ENVIRONMENTAL FATE:	No data
PHYSICAL/CHEMICAL:	(See Sections 9 and 10)
13. DISPOSAL CONSIDERATIONS	
According to local, state and federal regulations:	The presence of chlorinated paraffin in a waste does not, by itself, make the waste hazardous. (40 CFR 261, Appendix VIII)
Because product uses, mixtures, processes, or contamination may render this material hazardous, it is the responsibility of the user/owner of the product to determine at the time of disposal, whether the product meets RCRA criteria for a hazardous waste. Dispose of this material and the empty containers, liners and rinsate according to current local, state, and federal regulations.	

14. TRANSPORTATION INFORMATION (Not meant to be all inclusive)
DOT SHIPPING NAME: Chlorinated Paraffin DOT HAZARD CLASS/DESCRIPTION: Not applicable DOT LABEL: Not applicable DOT PLACARD: Not applicable DOT UN/NA NUMBER: Not applicable DOT PRODUCT RQ: Not applicable IMO CLASSIFICATION: Not applicable EEC CLASSIFICATION: Not applicable EEC LABEL: Not applicable EEC R: Not applicable EEC S: Not applicable TRANSPORT CANADA PIN: Not applicable
15. REGULATORY INFORMATION (Not meant to be all inclusive - selected regulations represented)
U.S. FEDERAL REGULATIONS: TSCA: Appears in TSCA Inventory OSHA: None CERCLA SARA HAZARD CATEGORY: SECTION 311 AND 312: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: None SECTION 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: None INTERNATIONAL REGULATIONS: CANADIAN WHMIS: None CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): Appears in the Domestic Substances List EINECS: Appears in European Existing Chemical Substance Inventory STATE REGULATIONS: No specific listing in California or New Jersey. Additional information available upon request.
16. OTHER INFORMATION
MSDS Status: Revised, May 1, 1996 (See Section 1) The information herein is given in good faith, but no warranty, express or implied, is made. Consult DOVER CHEMICAL CORPORATION for further information.